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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/974,844	09/974,844 10/12/2001		Soon Chul Cha	P-0265	7347
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CHANTILL'		153	, ART UNIT	PAPER NUMBER	
				2685	

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/974,844	CHA, SOON CHUL				
	Office Action Summary	Examiner	Art Unit				
		Aung S. Moe	2685				
	The MAILING DATE of this communication app	pears on the cover sheet with the	correspondence address				
Period for	• •						
WHICH - Extens after SI - If NO p - Failure Any rep	RTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DATE ions of time may be available under the provisions of 37 CFR 1.1. X (6) MONTHS from the mailing date of this communication. eriod for reply is specified above, the maximum statutory period vero reply within the set or extended period for reply will, by statute by received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)□ F	Responsive to communication(s) filed on						
		· action is non-final.					
· -	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	·	, , , , , , , , , , , , , , , , , , , ,					
_	Disposition of Claims						
	Claim(s) 1,2,4,5,7-30,32 and 34-38 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) <u>38</u> is/are allowed.						
	Claim(s) <u>30</u> is/are allowed. Claim(s) <u>1,2,4,5,7-30,32 and 34-37</u> is/are rejected.						
	Claim(s) is/are objected to.	sied.					
	Claim(s) are subject to restriction and/o	r election requirement					
۰٫۵ ۲	die sabjest to restriction and/o	r clostion requirement.					
Applicatio	n Papers						
9) <u></u> ⊤	he specification is objected to by the Examine	er.					
10)∐ T	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
A	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)□ T	he oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.				
Priority un	nder 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1	1. Certified copies of the priority documents have been received.						
2	2. Certified copies of the priority documents have been received in Application No						
3	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(e)						
	of References Cited (PTO-892)	4) 🔲 Interview Summary	/ (PTO-413)				
2) Notice	of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	Pate				
	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5)	Patent Application (PTO-152)				

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1, 2, 4-5, 7-30, 32 and 34-37 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1, 2, 4-5, 7-30, 32, and 34-37 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Regarding claim 1, it is noted that the amended portions "the second connection link (i.e., Fig. 4, the element 55 of Applicant's invention) is configured to **be rotatably coupled a second** end thereof (i.e., noted the end part of element 55 connected to the supporting plate 53 as shown in Applicant's Fig. 4) to the image device unit (31)" are not described in the Specification.

In particular, it is cleared from Fig. 4 of Applicant's original disclosure that the connection link 55 is rotatably coupled to the first end (61a) of the link (61) and the connection between the connection link (55) and the camera supporting unit (53) is rigid (without rotation)

and there is no rotations between the connection link (55) and the camera unit (53/31) as claimed.

All the claims depending to the rejected claim 1 are also rejected for being depended upon the rejected claim 1.

Regarding claim 22, it is noted that the amended portions "a link connection portion (55) configured to rotatably coupled the image device unit" are not described in the Specification.

In particular, it is cleared from Fig. 4 of Applicant's original disclosure that the connection link 55 is rotatably coupled to the first end (61a) of the link (61) and the connection between the connection link (55) and the camera supporting unit (53) is rigid (without rotation) and there is no rotations between the connection link (55) and the camera unit (53/31) as claimed.

All the claims depending to the rejected claim 22 are also rejected for being depended upon the rejected claim 22.

Regarding claim 26, it is noted that the amended portions "a second pivot point provided at the image device unit, and a third pivot point provide along a link structure (55) coupling the first and second pivot points" are not described in the Specification.

In particular, it is cleared from Fig. 4 of Applicant's original disclosure that the connection link 55 is rotatably coupled to the first end (61a) of the link (61) and the connection between the connection link (55) and the camera supporting unit (53) is rigid (without rotation) and there is no rotations between the connection link (55) and the camera unit (53/31) as claimed. In view of this, it is noted that Fig. 4 of Applicant's invention merely show a first pivot

point (61a) with respect to the body unit connection (59) and a second pivot point (57) with respect to the link portion (55) and the link (61).

All the claims depending to the rejected claim 22 are also rejected for being depended upon the rejected claim 22.

Regarding claim 35, it is noted that the amended portions "the second end of the second link (i.e., see the portion connected between the element 55 and 53 as shown in Fig. 4) is **rotatably connected to** the image device unit (31)" are not described in the Specification.

In particular, it is cleared from Fig. 4 of Applicant's original disclosure that the connection link 55 is rotatably coupled to the first end (61a) of the link (61) and the connection between the connection link (55) and the camera supporting unit (53) is rigid (without rotation) and there is no rotations between the connection link (55) and the camera unit (53/31) as claimed.

In addition, the subject matters as recited in claims 36 and 37 (i.e., a third link rotatably coupled to the image device unit, and "fourth link is coupled to the third link") are not cleared from the Applicant's invention; thus, please indicate the support for such claimed features in the Applicant's specification/drawings.

All the claims depending to the rejected claim 35 are also rejected for being depended upon the rejected claim 35.

For the purpose of Examining, the Examiner will given the broadest reasonable interpretation to the claimed language as recited in the present claimed invention, thus, claims are further rejected as follows:

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Art Unit: 2685

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 2, 4, 5, 17-30, 32, 34 and 35-37 rejected under 35 U.S.C. 103(a) as being unpatentable over Tozuka (U.S. 5,412,417) in view of Gotoh et al. (U.S. 5,396,269).

Regarding claim 1, Tozuka '417 discloses an apparatus for adjusting an angle of an image device (14) for information processing equipment (10) comprising:

a main body including a plurality of key buttons and a built-in unit (i.e., noted the main unit 12 and key buttons 16 and 17 as shown in Fig. 1);

a display body (13) having a display unit (22), wherein the display body (13) is rotatably coupled (i.e., see Figs. 2 and 3) to one side of the main body (12);

an image device unit (14) coupled to the display body (13) and configured to receive an image device (23) mounted thereon (i.e., see Figs. 2-4); and

rotation device (i.e., noted the elements 37, 40, 41, 43 and 26 as shown in Figs. 2 and 3) for rotating the image device unit (14) in accordance with a rotation angle between the display body (13) and the main body (12) (i.e., see col. 1, lines 35+ and col. 2, lines 15-20), comprising a first connection link (i.e., Fig. 3, the element 41) configured to be rotatably coupled at a first end thereof to the main body (12) and rotatably coupled at a second end thereof to a second

connection link (i.e., noted form Figs. 3 and 4, the vertical wall 35 of camera mount unit 29 is functioned as a second connection link to the first link 41).

Furthermore, it is noted that although Tozuka '417 shown different modification for connecting the image device unit and the main body by using different connection link (i.e., see Figs. 7 and 9 of Tozuka '417), Tozuka '417 does not explicitly show wherein the second connection link is configured to be rotatably coupled at a first end thereof to the first connection link and rotatably coupled a second end thereof to the image device unit as recited in present claimed invention.

However, the above-mentioned claimed limitations are well known in the art as evidenced by Gotoh '269. In particular, Gotoh '269 teaches that it is conventionally well known to use a second connection link (i.e., see Fig. 10, the element 98) for adjusting an angle of an image device unit (96) wherein the second connection link (98) is configured to be rotatably coupled at a first end thereof to the first connection link (94) and rotatably coupled a second end thereof to the image device unit (96) as recited in present claimed invention (i.e., see col. 14, lines 1-20 and Fig. 10).

In view of the above, having the system of Tozuka '417 and then given the well-established teaching of Gotoh '269, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Tozuka '417 by providing a second link device (98) as taught by Gotoh '269, since Gotoh '269 stated in col. 3, lines 20+ such a modification would improve manipulatability and function extendibility for the camera unit and the display unit.

Regarding claim 2, the combination of Tozuka '417 and Gotoh '269 discloses the apparatus of claim 1 (see above), wherein the rotation means comprises a connecting link (i.e., noted the element 41/29 as shown in Figs. 3 and 4) that rigidly couples the main body (12) to the image device unit (14) in a rotational relationship to compensate a viewing angle of the image device when the rotation angle is changed (i.e., see col. 1, lines 35+ and col. 2, lines 15+).

Regarding claim 3, Tozuka '417 discloses wherein the rotation means comprises a connecting link (i.e., noted the element 41/29 as shown in Figs. 3 and 4) that couples one side of the main body (12) to one side of the image device unit (i.e., see Figs. 2 and 4).

Regarding claim 4, Tozuka '417 discloses the apparatus of claim 3, wherein one end of the connecting link (i.e., noted the element 41/29 as shown in Figs. 3 and 4) is connected to one side of the main body (12) having a first prescribed offset distance (i.e., noted the distance between the elements 26 and 43 as shown in Fig. 3) from a center of rotation of the display body (i.e., noted the element 26 is center of the display unit 13), and the other end of the connecting link is connected to the image device unit (i.e., noted the connection 40 connected to the camera unit 14 as shown in Fig. 3) having a second prescribed offset distance from a center of rotation of the image device unit (i.e., noted the distance between the element 40 and the center of the rotation of the camera unit 14 as shown in Fig. 3).

Regarding claim 5, Tozuka '417 discloses the apparatus of claim 3 (see above), wherein a body protruding portion (i.e., noted the elements 20/42 as shown in Fig. 3) protrudes upwardly from the main body (12), and a body connecting portion (i.e., noted the elements 42/20 contain a connection portion for connecting the display unit/camera unit with the main body as shown in

Fig. 3) is installed on a side surface of the body protruding portion (i.e., the projection portions 42/20) so that the connecting link (41) can be coupled thereto, wherein the body connecting portion is installed on a position that is the first prescribed offset distance form the rotation center of the display body (i.e., noted the distance between the elements 26 and 43 as shown in Fig. 3).

Regarding claim 17, Tozuka '417 discloses he apparatus of claim 1 (see above), wherein the image device unit (14) is located at one of an upper central part of the display body, on a left edge on an upper end of the display body, on a right edge on the upper end of the display body and side portions of the display body (i.e., noted the location of the element 14 as shown in Fig. 2).

Regarding claim 18, Tozuka '417 discloses he apparatus of claim 17 (see above), wherein the main body (12) comprises a body protruding portion (i.e., noted the elements 20/42) upwardly protruded from a top surface into the display body (13) and a body connecting portion (i.e., noted the elements 42/20 contain a connection portion as shown in Fig. 3) is formed on a side surface of the body protrusion portion (20/42) the connection of parallel to the center of rotation of the display body (13) so that the rotation device (41) can be connected thereto (i.e., see Figs. 3 and 9).

Regarding claim 19, Tozuka '417 discloses the apparatus of claim 1 (i.e., see above), wherein the image device unit (14) is located on one of a left edge and a right edge on an upper end of the display body (i.e., see Fig. 2).

Regarding claim 20, Tozuka '417 discloses the apparatus of claim 19 (i.e., see above), wherein a hinge engaging portion is upwardly protruded (i.e., noted the elements 20/42 as shown in Fig. 3) on the main body (12) so that the display body (13) can be rotationally coupled to the main body (12) and a body connecting portion (i.e., noted the elements 42/20 contain a connection portion for connecting the display unit/camera unit with the main body as shown in Fig. 3) is protruded on a side surface of the hinge engaging portion offset and parallel to the center of the rotation of the display body (i.e., noted the offset distance between the elements 26 and 43 as shown in Fig. 3), wherein the rotation device (41) is connected to the body connecting portion (20/42).

Regarding claim 21, Tozuka '417 discloses the apparatus of claim 1 (see above), wherein the image device unit (14) is positioned in one of the side portions of the display body (13) (i.e., see Fig. 2), and wherein a hinge engaging portion is upwardly protruded (i.e., noted the elements 20/42 as shown in Fig. 3) on the main body (12) so that the display body (13) can be rotationally coupled to the main body (12) and a body connecting portion is protruded on a side surface of the hinge engaging portion (i.e., noted the elements 42/20 contain a connection portion for connecting the display unit/camera unit with the main body as shown in Fig. 3) offset and parallel to the center of the rotation of the display body (i.e., noted the offset distance between the elements 26 and 43 as shown in Fig. 3), wherein the rotation device (41) is connected to the body connecting portion (20/42).

Regarding claim 22, Tozuka '417 discloses an apparatus for automatically adjusting an angle of an image device (14) for information processing equipment (i.e., col. 1, lines 35+)

comprising: a main body (i.e., 12) including a plurality of key buttons (16/17) and a built-in unit (i.e., see Fig. 1, col. 3, lines 15+);

a display body (13) including a display unit (22) and connected to one side of the main body (12) to rotate between an open position and a closed position (as shown in Fig. 1, the display unit 13 is capable of rotating between an open position and a closed position by movably coupled or hinged to the top portion of the main body 12 via a element 20, so that the display unit 22 can be protected when it's not in used);

an image device unit (14) installed on one side of the display body (13) and having an image device (23) installed therein; and

rotation device (i.e., the elements 20, 42, 37, 40 and 41) comprising a connecting link (i.e., the element 41) one end thereof (i.e., noted the location of the elements 42 and 41 as shown in Fig. 3) connected to the main body (12) spaced apart from a center of rotation of the display body (13) and the other end thereof (i.e., noted the elements 37 and 40) connected to the image device unit (14) spaced apart from a center of rotation of the image device unit (14) for rotationally connecting the main body (12) to the image device unit (14).

Furthermore, it is noted that although Tozuka '417 shown different modification for connecting the image device unit and the main body by using different connection link (i.e., see Figs. 7 and 9 of Tozuka '417), Tozuka '417 does not explicitly show a link connection portion configured to rotatably couple the connecting link and the image device unit and spaced apart from a center of rotation of the image device unit so as to rotatably couple the main body and the image device unit as recited in present claimed invention.

However, the above-mentioned claimed limitations are well known in the art as evidenced by Gotoh '269. In particular, Gotoh '269 teaches that it is conventionally well known to use a link connection portion (i.e., see Fig. 10, the element 98) for adjusting an angle of an image device unit (96) by rotatably coupled the connecting link (94) and the image device unit (96) so as to rotatably couple the main body (91) and the image device unit (96) as recited in present claimed invention (i.e., see col. 14, lines 1-20 and Fig. 10).

In view of the above, having the system of Tozuka '417 and then given the well-established teaching of Gotoh '269, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Tozuka '417 by providing a second link device (98) as taught by Gotoh '269, since Gotoh '269 stated in col. 3, lines 20+ such a modification would improve manipulatability and function extendibility for the camera unit and the display unit.

Regarding claim 23, Tozuka '417 discloses the apparatus of claim 22 (i.e., see above), wherein a rotation angle of the image device unit (i.e., noted the rotation angle between the camera unit 14 as shown in Fig. 3 and 9) relative to a rotation angle of the display body is changed by controlling one of a distance from the rotation center of the display body to the rotation device and a distance from the rotation center of the image device unit to the rotation device (i.e., noted the distance between the elements 37, 20, 43 and 40 as shown in Figs. 3 and 9, showed the relation between the distance and the rotation angle so that an angle of the image device 14 is automatically adjusted based on the movement of the display unit 13).

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Regarding claim 24, Tozuka '417 discloses the apparatus of claim 23 (see above), wherein the distance between the center of rotation of the display body and the rotation device (i.e., noted the distance between the elements 26 and 43 as shown in Fig. 3) and the distance between the center of rotation of the image device unit and the rotation device are equal (i.e., noted the distance between the element 37 and 40, which is equal to the distance between the elements 26 and 43).

Regarding claim 25, Tozuka '417 discloses the apparatus of claim 22 (see above), wherein the image device unit (14) is rotatably installed within an outer shell of the display body (i.e., se Fig. 2, noted the location of the image device unit 14).

Regarding claim 26, Tozuka '417 discloses an apparatus (i.e., Fig. 1; and col. 1, lines 35+) that adjusts an angle of an image device (14) for information processing equipment (12) comprising:

a display body (13) including a display unit (22) and rotatably coupled to one side of a main body (12) of the information processing equipment (i.e., see Fig. 1-3; col. 3, lines 25+); and

an image device (14) configured to move together with the display body (13) while an angle of the image device unit with the respect to the display body (13) is adjusted based on a prescribe relationship (i.e., see Figs. 1-3 and 9; col. 1, lines 35+, col. 2, lines 15+ and col. 3, lines 15+) through the action of a first pivot point (i.e., see Fig. 3, the element 43/42), a second pivot point (40/37) provided at the image device unit (14).

Furthermore, it is noted that although Tozuka '417 shown different modification for connecting the image device unit and the main body by using different connection link (i.e., see

Figs. 7 and 9 of Tozuka '417), Tozuka '417 does not explicitly show a third pivot point provided along a link structure coupling the first and second pivot points as recited in present claimed invention.

However, the above-mentioned claimed limitations are well known in the art as evidenced by Gotoh '269. In particular, Gotoh '269 teaches that it is conventionally well known to use a link structure (i.e., see Fig. 10, the element 98) for adjusting an angle of an image device unit (96) wherein the link structure (98) having a third pivot point along the link structure (98) coupling first and second pivot points (i.e., see col. 14, lines 1-20 and Fig. 10) of the main body (91) and the image device unit (96) as required by the present claimed invention.

In view of the above, having the system of Tozuka '417 and then given the wellestablished teaching of Gotoh '269, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Tozuka '417 by providing a second link device (98) as taught by Gotoh '269, since Gotoh '269 stated in col. 3, lines 20+ such a modification would improve manipulatability and function extendibility for the camera unit and the display unit.

Regarding claim 27, Tozuka '417 discloses the apparatus of claim 26 (see above), further comprising a rotation device configured to connect (i.e., the elements 20, 42, 37, 40 and 41) one side of the image device unit (14) and one side of the main body (12) (i.e., see Figs. 1-3).

Regarding claim 28, Tozuka '417 discloses the apparatus of claim 27 (see above). wherein one end of the rotation device is connected to one side of the main body a prescribed distance from a rotation center of the display body (i.e., noted the distance between 26 and 43 as

shown in Figs. 3 and 9), and the other end of the rotation device is connected to the image device unit (14) a prescribed distance from a rotation center of the image device unit (i.e., noted the distance between the elements 37 and 40 as shown in Figs. 3 and 9).

Regarding claim 29, Tozuka '417 discloses the apparatus of claim 26 (see above), wherein the image device (23) installed on the image device unit (14) is **one of** a camera (i.e., see col. 3, lines 30-35 and Fig. 4), a projector, and a monitor, and wherein the prescribed relationship maintains a constant angle relative to the main body **or** relative to a point having a fixed spatial relation to the main body (i.e., see Figs. 3 and 9; see col. 1, lines 35+, col. 2, lines 15+ and col. 4, lines 45+).

Regarding claim 30, Tozuka '417 shows wherein the image device comprises a camera, a projector, or a monitor (i.e., see col. 3, lines 30-35).

Regarding claim 32, Tozuka '417 discloses wherein the predetermined angle between the main body (12) and the image device (14) is maintained as the supporting unit (13) rotates relative to the main body (i.e., as shown in Figs. 3 and 9, the camera unit 14 is parallel to the main body 12 by maintaining a predetermined angle so that the field of view of the camera unit 14 does not change when the display unit is rotated to a specific angle position form the main body 12; see Figs. 3 and 9; see col. 1, lines 35+, col. 2, lines 15+ and col. 4, lines 45+).

Regarding claim 34, Tozuka '417 discloses wherein the image device (14) comprises a camera (23), a projector, or a monitor (22).

Regarding claim 35, Tozuka '417 discloses an apparatus (i.e., Figs. 1-3 and 9, see col. 1, lines 35+) for maintaining a preset angle of an image device (14) for an information processing equipment (10), comprising:

a main body (12); a supporting unit (13); an image device (14) mounted on the supporting unit (i.e., see Figs. 2 and 4); and a rotation device configured to maintain a predetermined angle between the main body and the image device (i.e., as shown in Figs. 3 and 9, the camera unit 14 is parallel to the main body 12 by maintaining a predetermined angle so that the field of view of the camera unit 14 does not change when the display unit is rotated to a specific angle position form the main body 12; see Figs. 3 and 9; see col. 1, lines 35+, col. 2, lines 15+ and col. 4, lines 45+), comprising a linking device (i.e., the element 41) configured to rotatably connect the main body (12) to the image device (14), wherein the linking device (41) comprises a fist link (42/43) with a first end thereof rotatably connected to the main body (12), and a second end (40) thereof rotatably connected to a first end of a camera unit (14).

Furthermore, it is noted that although Tozuka '417 shown different modification for connecting the image device unit and the main body by using different connection link (i.e., see Figs. 7 and 9 of Tozuka '417), Tozuka '417 does not explicitly show wherein a second end of the second link is rotatably connected to the image device as recited in present claimed invention.

However, the above-mentioned claimed limitations are well known in the art as evidenced by Gotoh '269. In particular, Gotoh '269 teaches that it is conventionally well known to use a second connection link (i.e., see Fig. 10, the element 98) for adjusting an angle of an image device unit (96) wherein the second connection link (98) is configured to be rotatably coupled at a first end thereof to the first connection link (94) and rotatably coupled a second end thereof to the image device unit (96) as recited in present claimed invention (i.e., see col. 14, lines 1-20 and Fig. 10).

In view of the above, having the system of Tozuka '417 and then given the well-established teaching of Gotoh '269, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Tozuka '417 by providing a second link device (98) as taught by Gotoh '269, since Gotoh '269 stated in col. 3, lines 20+ such a modification would improve manipulatability and function extendibility for the camera unit and the display unit.

Regarding claim 36, the combination of Tozuka '417 and Gotoh '269 shows a third link (as shown in Fig. 9 of Tozuka '417, the link 13 can be considered as third link; and as shown in Fig. 10 of Gotoh '269, the element 94 contain multiple link portions, thus, on of the link connecting the link 98 and 94 can be considered as third link) rotatably coupled to the image device unit (i.e., the elements 14 of Tozuka '417; noted that the link connected to the element 94 is rotatably connected to the camera element 96 of Gotoh '269) at a first end thereof, and to a fourth link (94) at a second end thereof (i.e., noted from Fig. 10 of Gotoh '269 that the link between the elements 98 and 94).

Regarding claim 37, the combination of Tozuka '417 and Gotoh '269 discloses wherein the fourth link (94) is coupled to the third link (i.e., the link between the element 98 and 94 as shown in Fig. 10 of Gotoh '269) at a first end thereof, and rotatably coupled to the main body at a second end thereof (i.e., noted that one of the link 94 is connected to the main body as shown in Fig. 10 of Gotoh '269).

5. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tozuka '417 in view of Gotoh '269 as discussed above and further in view of Higuchi et al. (U.S. 6,829,011).

Regarding claim 16, it is noted that Tozuka '417 discloses an apparatus for adjusting an angel of the image device (14) for the information processing equipment (10) having all the features (i.e., see as discussed above for claim 1) except for a sliding door, which is included in the display body so as to open/close the image device unit in the display body.

Although a sliding door is noted located on the display body (13) in Tozuka '417, it would have been obvious to one of ordinary skill to include a sliding door (i.e., the cover element for the camera 14) in the display body (13) for the purpose of protecting the lens of the camera unit (14) from a contamination, such as dust, or a damage when the system is not in used, since it is notoriously well known in the art that the camera lens is normally protected with the use of door unit thereby a better quality image can be obtained, and such a modification is within the level of ordinary skilled in the art. Furthermore, the teaching of Higuchi '011 supports the Examiner's position. In particular, Higuchi '011 clearly teaches that it is conventionally known to those skill in the art at the time of the invention was made to use a sliding door (see Fig. 1, the element 4; and col. 8, lines 35-45) to protect shooting lens of the camera aperture 2 when non-shooting

In view of the above, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Tozuka '417 by providing a sliding door (i.e., noted the teaching of Higuchi '011) in the display unit (13) in order to protect the camera lens from a contamination, such as dust, or a damage when non-shooting, thereby a better quality image can be realized when shooting is performed with the sliding door opened.

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Allowable Subject Matter

1. Claims 7-15 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

2. Claim 38 is allowed.

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aung S. Moe whose telephone number is 571-272-7314. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aung S. Moe Primary Examiner

Art Unit 2685

A. Moe October 17, 2005